

# Wifi Pan/Tilt IP Camera User Manual

**Rev. 3.0**

**Software Version 3.00**

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# 1. Product Views

## 1.1. Front Panel



(picture for reference only, specification shall base on real object)

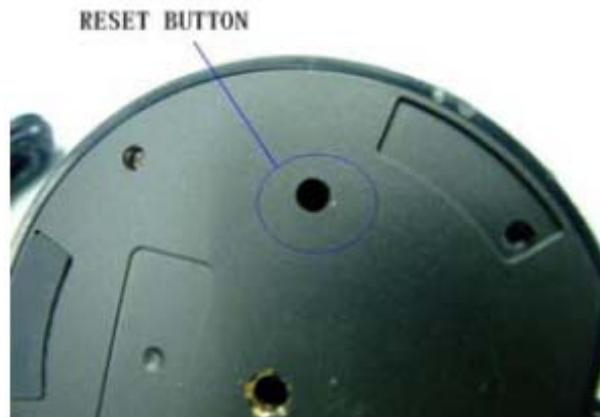
## 1.2. Back Panel



- **Ethernet interface:** RJ-45 10/100 Base T

- **Power supply:** DC5V, 2A
- **I/O Port:** 1: Output (+5V); 2: Output; 3: Alarm Input; 4: Input (Ground).  
Alarm input port can be connected with an external alarm device or sensor.
- **LED signal:**
  - The green LED of LAN port indicates the power status and the yellow LED indicates the network condition. When the camera is successfully connected, the two LED will light constantly. The yellow LED will flash when the camera is transmitting data.

**RESET Button:** Push the button for 5 seconds and the camera will restore factory settings.



### 1.3. Accessories

- One Setup Disc (including the camera driver and user manual)
- One Power Adaptor (DC 5V, 2A)
- One Antenna
- One Bracket

**Note:** [Contact us immediately in case of any shortages.](#)

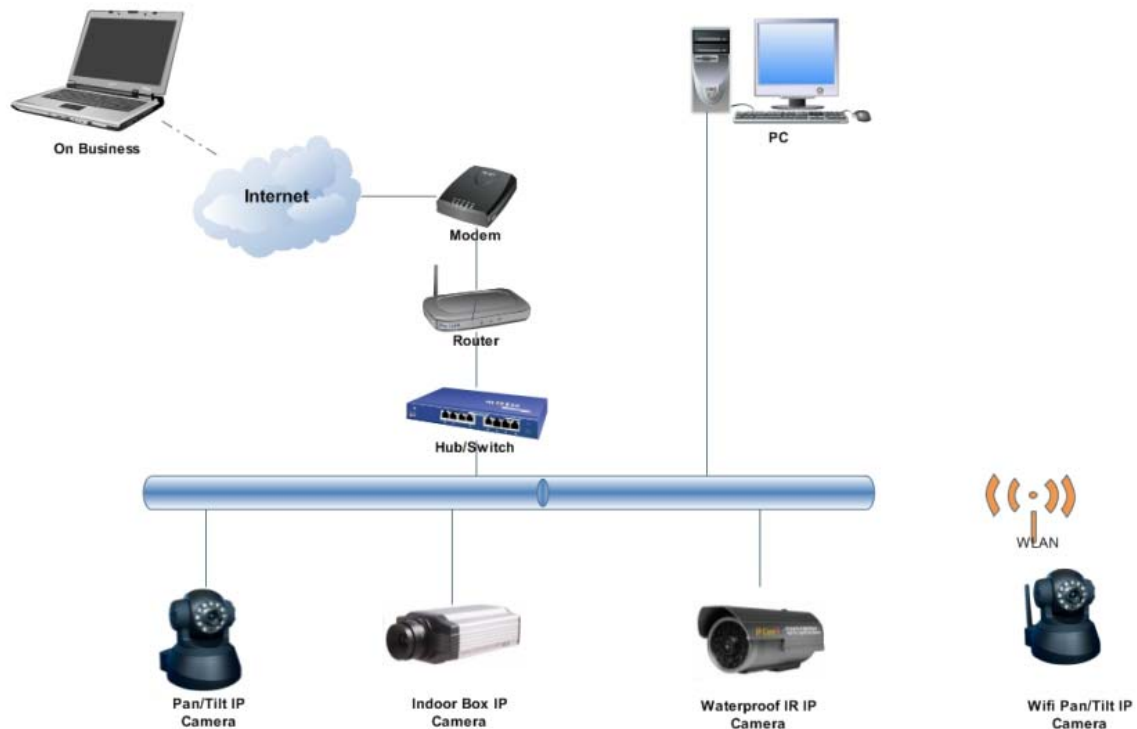
## 2. Setup and Startup

### 2.1. Connection

- First: connect the camera with hub, switch or router by Cat.5 straight-through cable with standard RJ-45 interface, or connect it with PC directly by cross-over cable.
- Second, connect the camera with power supply by the adaptor supplied (DC5V, 2A).

**Caution:** Please ensure that the adaptor matches with the electricity (Input: AC 110V or 220V, Output: 5V DC/2A).

#### Connecting Illustration:

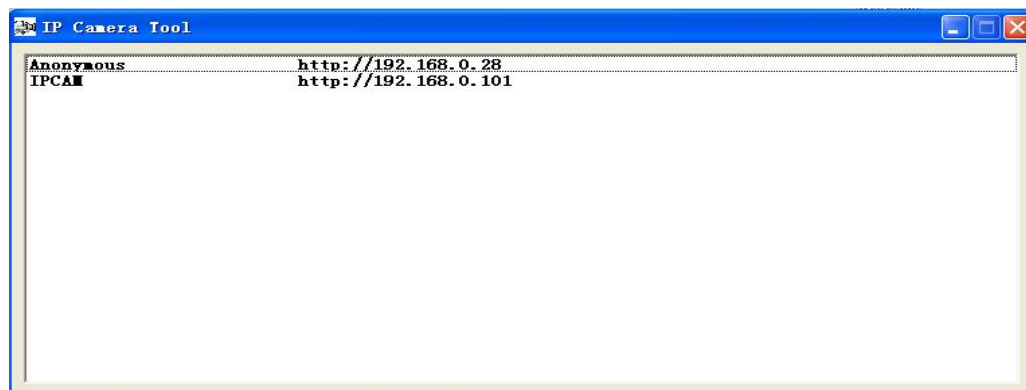


### 2.2. Setup and Startup

- double-click IPCamSetup and install following the instructions;
- an icon IP Camera Tool appears on the desktop upon completion of the installation;

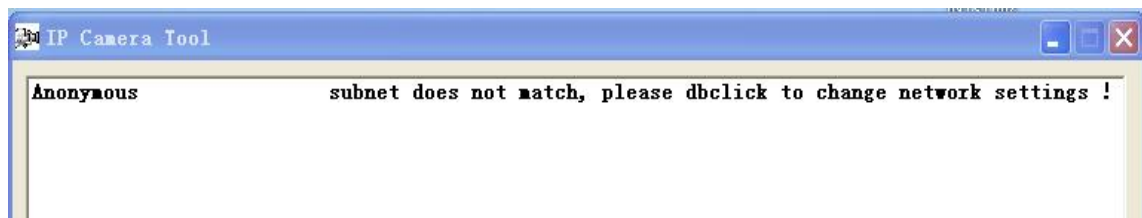


- double-click the above icon and a dialogue box appears: the IP address of the camera will appear after several seconds.



D. double-click the camera you want to browse and enter the login page.

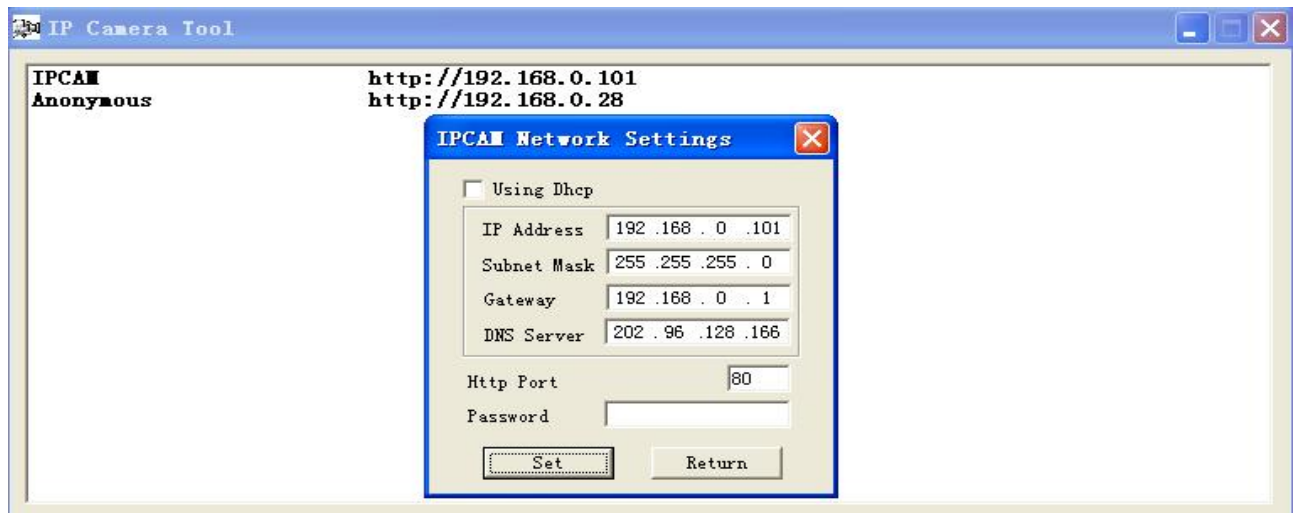
- **Question 1:** Please do as follows if the camera doesn't share the same subnet with your PC.



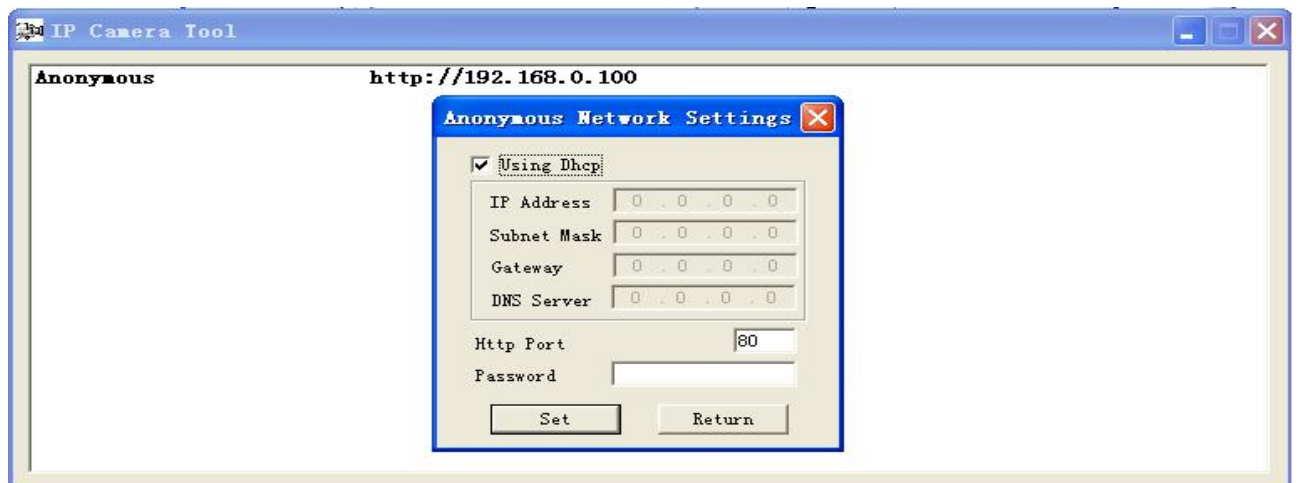
Click the address on the left button to choose and click the right button choosing "network settings":



However, if the LAN or PC doesn't support DHCP (assign dynamic IP), please don't choose "Using DHCP". And then you can set the IP address of the camera according to the network segment of LAN or PC. But it cannot be the same as other cameras or PC within the network (the first three data must be the same, so does the subnet mask). The port setting can only be changed in the page below.

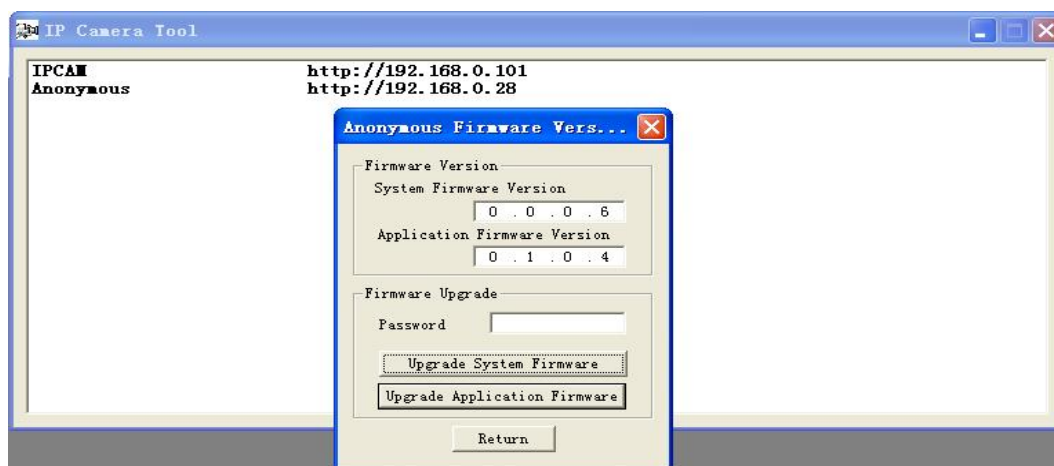


While the LAN or PC supports DHCP (assign dynamic IP), you can choose “Using Dhcp”.



- **Question 2:** Software upgrade

Upgrade the system and application software. For application software, the upgrading is mainly about the changes of operating interface.



## 3 Login and Settings

### 3.1. Login

Input the URL (for example, <http://192.168.0.218>) or enter the home page by ip camera tool mentioned above.

Input the user name and password (**default user: admin; no password**). Click “Sign in” and enter the monitoring page (Max. 4 users viewing simultaneously).

Language optional: English and Simplified Chinese.

english 简体中文

**ActiveX Mode (For IE Browser)**

User

Password

**Sign in**

**Server Push Mode (For FireFox, Google Browser)**

**Sign in**

attention:

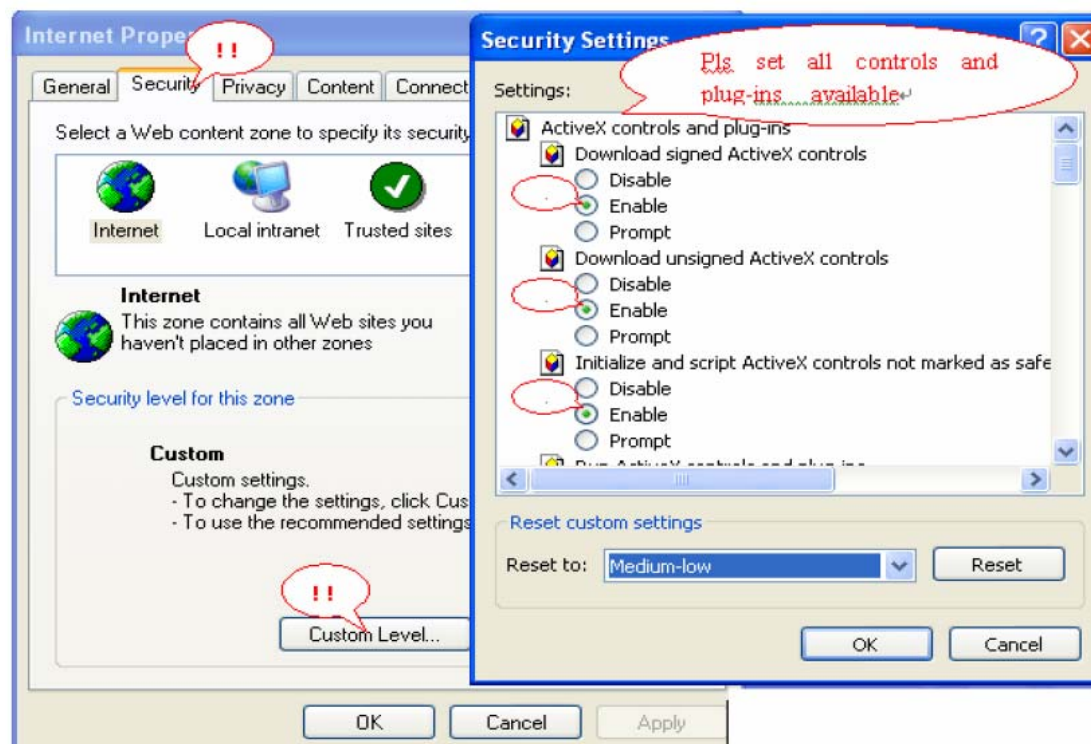
case sensitive

propose using 1024 \* 768 screen resolution





**Note:** If no image appears, you need to set your IE browser\ Tool\ Internet property\ Security\ Custom level as below and enable unsigned ActiveX controls.

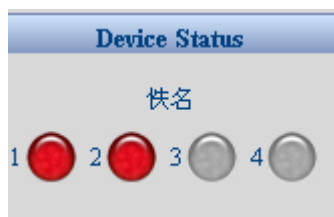


### 3.2. Operation for visitor

The green button indicates the channels of ip cameras connected. For example, the figure below shows two ip cameras are connected.



The red button indicates alarm of the camera (motion detection or I/O alarm triggered).



### Quad mode display:

1. Add cameras within LAN: Click “For Administrator” and enter the management page. Please select “Multi-Device Settings”. If the cameras are within the same LAN, their ip address will list in Device List in Lan. Then click The 2nd Device and select the ip address of the camera you want to add. Double-click the ip address and fill in the required information. Click Add and then Submit.

Multi-Device Settings	
Device List in Lan	<div>anonymous(192.168.1.118)</div>
The 1st Device	This Device
The 2nd Device	anonymous(richonor.3322.org)
Alias	anonymous
Host	192.168.1.118
Http Port	80
User	admin
Password	
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Device	None
The 4th Device	None
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

**Note:** The port of ip camera can be set as 80 ~ 8080. The ports of ip cameras within LAN should be different.

2. Add cameras from Ethernet: When fill the required information, please input the domain name of the camera in the Host.

Multi-Device Settings	
Device List in Lan	<div>anonymous(192.168.1.118)</div> <div></div>
The 1st Device	This Device
The 2nd Device	anonymous(richonor.3322.org)
Alias	anonymous
Host	ipcamhost.dyndys.org
Http Port	80
User	admin
Password	
	<input type="button" value="Add"/> <input type="button" value="Remove"/>
The 3rd Device	None
The 4th Device	None
attention: If you want to access the device from internet, be sure the host and port that you set can be accessed from internet.	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Get back to the monitoring page and select quad mode window and then you will see the image of the two cameras added.



### 3.3 Operation for administrator

Click “For Administrator” and it will enter the management page as follows:

Device Info	
Device ID	0009455B231B
Device Firmware Version	3.1.1.0
Device Embeded Web UI Version	0.0.1.0

Device Info
Alias Settings
Date&Time Settings
Users Settings
Multi-Device Settings
Basic Network Settings
Wireless Lan Settings
ADSL Settings
UPnP Settings
DDNS Service Settings
Mail Service Settings
Ftp Service Settings
Alarm Service Settings
Upgrade Device Firmware
Restore Factory Settings
Reboot Device
Back

Device Info: it shows the information of the camera.

### 3.3.1 Alias Settings

Alias Settings	
alias	<input type="text" value="anonymous"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

alias: choose a name for your camera;

### 3.3.2 Users Settings

Users Settings		
User	Password	Group
<input type="text" value="admin"/>	<input type="password"/>	Administrator ▼
<input type="text"/>	<input type="password"/>	Visitor ▼
<input type="text"/>	<input type="password"/>	Visitor ▼
<input type="text"/>	<input type="password"/>	Visitor ▼
<input type="text"/>	<input type="password"/>	Visitor ▼
<input type="text"/>	<input type="password"/>	Visitor ▼
<input type="text"/>	<input type="password"/>	Visitor ▼
<input type="text"/>	<input type="password"/>	Visitor ▼

User: choose a name as you recognize for login;

Password: choose a password for login. Please do remember it or take it down.

### 3.3.3 Basic Network Settings

Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
IP Addr	<input type="text" value="192.168.0.141"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Gateway	<input type="text" value="192.168.0.1"/>
DNS Server	<input type="text" value="202.96.134.133"/>
Http Port	<input type="text" value="80"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

### 3.3.4 Wireless Lan Settings (For wireless ip camera only)

Please select Using Wireless Lan and fill in the SSID, Encryption method and Keys according to the wireless network settings of your wireless router, while select None if no encryption is set.

Wireless Lan Settings	
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	<input type="text" value="*****"/>
Encryption	<input type="button" value="None"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Wireless Lan Settings	
Using Wireless Lan	<input checked="" type="checkbox"/>
SSID	<input type="text" value="*****"/>
Encryption	<input type="button" value="WEP"/>
Default TX Key	<input type="button" value="1"/>
Key 1	<input type="text" value="*****"/>
Key 2	<input type="text"/>
Key 3	<input type="text"/>
Key 4	<input type="text"/>
attention: If your WEP Key has 104 bits, Key 1 must be selected	
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

### 3.3.5 ADSL Settings

Please select Using ADSL Dialup and fill in the correct user and password if you use ADSL dialup to connect to the Internet.

ADSL Settings	
Using ADSL Dialup	<input checked="" type="checkbox"/>
ADSL User	<input type="text"/>
ADSL Password	<input type="text"/>
Report ADSL IP by Mail	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

### 3.3.6 UPnP Settings

Please select Using UPnP to Map Port if the router has the function, while leave it blank if none.

UPnP Settings	
Using UPnP to Map Port	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

**3.3.7 DDNS Service Settings:** the network setting should be effective and the gateway or router within LAN needs to map the port or choose “Auto Map Port by UPNP”.

DDNS Service Settings	
DDNS Service	DynDns.org(dyndns) ▼
DDNS User	None
DDNS Password	DynDns.org(dyndns)
DDNS Host	DynDns.org(statdns)
DDNS Status	No Action
Re-Update Ignoring All Errors	<input type="checkbox"/> never do this unless your hostname has been unblocked
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

DDNS server is embedded in the camera to resolve the problem of dynamic IP address. Users need to login and register at specified website before they can use it normally, for instance, <http://www.dyndns.com/>

DDNS Service Settings	
DDNS Service	DynDns.org(dyndns) ▼
DDNS User	afhomeip
DDNS Password	••••••••
DDNS Host	
DDNS Status	No Action
Re-Update Ignoring All Errors	<input type="checkbox"/> never do this unless your hostname has been unblocked
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

**Note:** If there is any problem with DDNS Service Settings, please refer to the guide in the disc.

### 3.3.8 Mail Service Settings:

Sender and Receiver: input a valid e-mail address to send and receive pictures when alarm triggered;

Mail Service Settings	
Sender	blues_2008@163.com
Receiver 1	bruce1008@sina.com
Receiver 2	
Receiver 3	
Receiver 4	
SMTP Server	smtp.163.com
Need Authentication	<input checked="" type="checkbox"/>
SMTP User	blues_2008
SMTP Password	●●●●●●●●
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

### 3.3.9 Ftp Service Settings

Ftp service is used to send the captured pictures when alarm triggered to ftp server and save them. If the camera is not connected to the Internet, there is no need to set this function.

Ftp Service Settings	
FTP Server	tekego.com.cn
FTP Port	21
FTP User	CWC8240
FTP Password	●●●●●●●●
FTP Upload Folder	ipcamera_alarm
FTP Mode	PORT
Upload Image Now	<input checked="" type="checkbox"/>
Upload Interval (Seconds)	1
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

FTP Server: the website you want to upload the picture to;

FTP Port: 21

FTP User: user name to login ftp server;

FTP Password: password to login ftp server;

FTP Upload Folder: folder to upload the save the pictures;

FTP Mode: please select PORT;

Upload Image Now: when it's selected, the camera will upload pictures immediately after it comes into effect;

Upload Interval (Seconds): set the upload interval; unit: second.

### 3.3.10 Alarm Service Settings:

Click "Alarm Service Setting" and it will enter the page below:

Alarm Service Settings	
Motion Detect Armed	<input checked="" type="checkbox"/>
Alarm Input Armed	<input type="checkbox"/>
IO Linkage on Alarm	<input type="checkbox"/>
Send Mail on Alarm	<input type="checkbox"/>
Upload Image on Alarm	<input type="checkbox"/>
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

Motion Detect Armed: Moving objects trigger alarm;

Alarm Input Armed: Alarming signal input triggers alarm;



## 4 How to view on the Internet?

To view the camera on the Internet, first please figure out by which way you access to the Internet.

**Method 1:** Fixed IP Address. You just need to fill in the ip address and required information if you access to the Internet by this way. And then you can view the camera on the Internet by inputting the ip address.

**Method 2:** Dynamic IP Address. If you access to the Internet by this method, there are four steps you need to do.

Step1: Acquire a dynamic domain name;

Step2: Set a static ip address for the camera;

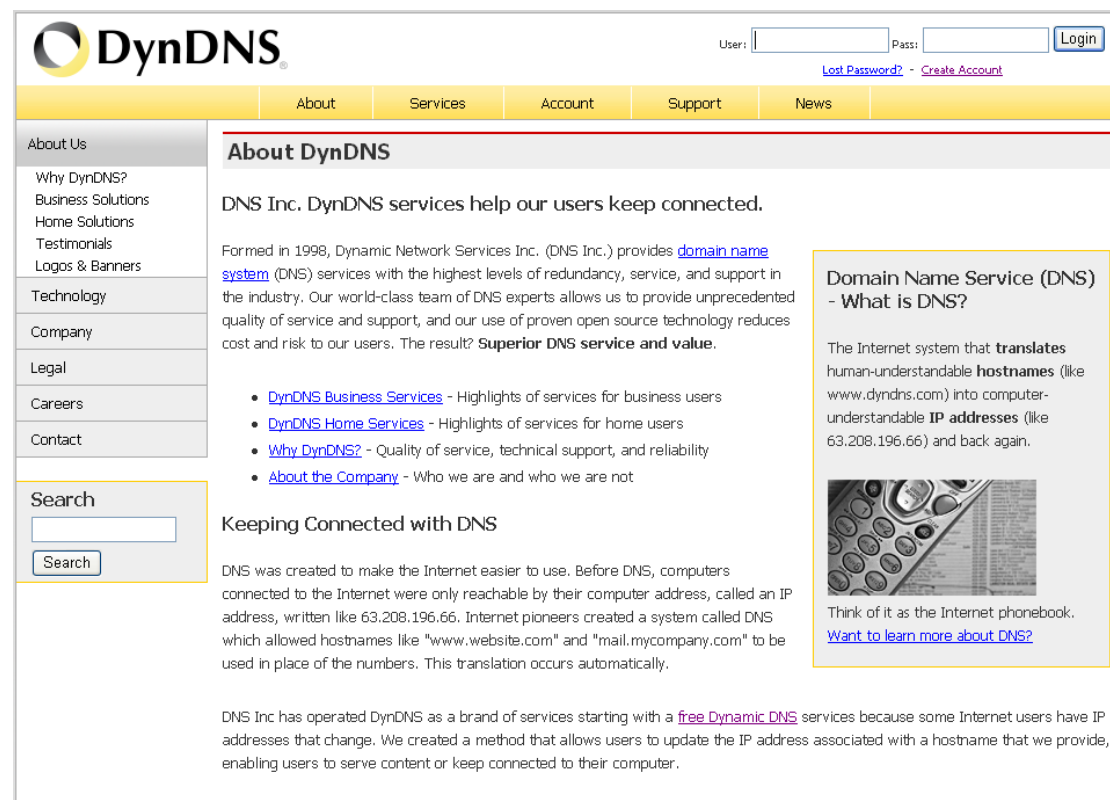
Step3: Set the router;

Step4: Set the camera at DDNS service settings.

Please refer to the detailed explanation below:


### 4.1. Acquire a dynamic domain name

#### 1. Lolon [www.dyndns.com](http://www.dyndns.com).



The screenshot shows the DynDNS website homepage. At the top, there is a navigation bar with links for About, Services, Account, Support, and News. Below this, the main content area is divided into two columns. The left column contains a sidebar with links for About Us, Why DynDNS?, Business Solutions, Home Solutions, Testimonials, Logos & Banners, Technology, Company, Legal, Careers, and Contact. The right column features a large section titled "About DynDNS" with a sub-header "DNS Inc. DynDNS services help our users keep connected." This section includes a paragraph about the company's history and services, followed by a list of links: "DynDNS Business Services", "DynDNS Home Services", "Why DynDNS?", and "About the Company". To the right of this section is a smaller box titled "Domain Name Service (DNS) - What is DNS?" which explains the concept of DNS and includes a link to "Want to learn more about DNS?". At the bottom of the page, there is a section titled "Keeping Connected with DNS" which explains the purpose of DNS and how it works.

2. Click "[Account](#)". If you already have an account, please just fill the username and password, and login. Otherwise, please select "Create one now" and it's free!



User: 
Pass:

[Lost Password?](#) - [Create Account](#)

AboutServicesAccountSupportNews

My Account

Create Account
Login
Lost Password?

Search

## Login

[Account Login](#)


Username: 
Password:

Don't have an account?

[Create one now](#) - it's free!

© 1998-2008 [Dynamic Network Services, Inc.](#) - [Legal Notices](#) - [Contacts](#)

3. Fill in the necessary information and do remember your Username and Password, or you can take them down. After completing the information, click “[Create Account](#)”.



User: 
Pass:

[Lost Password?](#) - [Create Account](#)

AboutServicesAccountSupportNews

My Account

Create Account
Login
Lost Password?

Search

## Create Your DynDNS Account

Please complete the form to create your free DynDNS Account.

Username:

Email Address:

Confirm Email Address:

Password:

Confirm Password:

Instructions to activate your account will be sent to the email address provided.

Your password needs to be more than 5 characters and cannot be the same as your username. Do not choose a password that is a common word, or can otherwise be easily guessed.

### About You (optional)

Providing this information will help us to better understand our customers, and tailor future offerings more accurately to your needs. Thanks for your help!

How did you hear about us: 
Details:

We [do not sell](#) your account information to anyone, including your email address.

### Terms of Service

Please read the acceptable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

Policy Last Modified: May 21, 2008

#### 1. ACKNOWLEDGMENT AND ACCEPTANCE OF TERMS OF SERVICE

All services provided by Dynamic Network Services, Inc. ("DynDNS") are provided to you (the "Member") under the Terms and Conditions set forth in this Acceptable Use Policy ("AUP") and any other operating rules and policies set forth by DynDNS. The AUP comprises the entire agreement between the Member and DynDNS and supersedes all prior agreements between the parties regarding the subject matter contained herein. BY COMPLETING THE REGISTRATION PROCESS AND CLICKING THE "Accept" BUTTON, YOU ARE INDICATING YOUR AGREEMENT TO BE BOUND BY ALL OF THE TERMS AND CONDITIONS OF THE AUP.

#### 2. DESCRIPTION OF SERVICE

I agree to the AUP: ☒

I will only create one (1) free account: ☒

#### - Mailing Lists (optional)

DynDNS maintains a number of mailing lists designed to keep our users informed about product announcements, client development, our company newsletter, and our system status. Please use the checkboxes below to alter your subscription preference. Your subscription preference may be changed at any time through the [account settings](#) page.

newsletters: ☐

press-releases: ☐

system-status: ☐

#### - Next Step

After you click "Create Account", we will create your account and send you an email to the address you provided. Please follow the instructions in that email to confirm your account. You will need to confirm your account within 48 hours or we will automatically delete your account. (This helps prevent unwanted robots on our systems)

Create Account

Then the Dynamic Network Services Inc. will send you an email to the email box you have filled to confirm your registration. Next, please logon the website it has specified to activate the account, for example,

Your DynDNS Account 'rh-ipcarn' has been created. You need to visit the confirmation address below within 48 hours to complete the account creation process:

<https://www.dyndns.com/account/confirm/QMp4CLVoOSk2aej4kaJvxg>

Our basic service offerings are free, but they are supported by our paid services. See <http://www.dyndns.com/services/> for a full listing of all of our available services.

If you did not sign up for this account, this will be the only communication you will receive. All non-confirmed accounts are automatically deleted after 48 hours, and no addresses are kept on file. We apologize for any inconvenience this correspondence may have caused, and we assure you that it was only sent at the request of someone visiting our site requesting an account.

Sincerely,  
The DynDNS Team  
Dynamic Network Services Inc.

**4. Fill the username and password and login.**

The screenshot shows the DynDNS website interface. At the top, there is a navigation bar with the DynDNS logo and a search bar. Below the navigation bar, there is a sidebar with links: "My Account", "Create Account", "Login", and "Lost Password?". The main content area is titled "Login" and contains a form with fields for "Username" (pre-filled with "rh-ipcarn") and "Password". There is a "Login" button next to the password field. Below the login form, there is a link "Account Login" and a message: "Don't have an account? [Create one now](#) - it's free!". At the bottom of the page, there is a footer with copyright information and links to "Legal Notices" and "Contacts".

**5. Now you have login your account and you need to add host services to your account. Click "[My Hosts](#)" and it will list the hosts you own. If you're a new user and have no host, please select "[Add Host Services](#)".**

Logged In User: **rh-ipc**  
[My Services](#) - [My Cart](#) - [Log Out](#)

[About](#)
[Services](#)
[Account](#)
[Support](#)
[News](#)

My Account  
 My Services  
 Account Settings  
 Billing  

**My Cart**  
[0 Items](#)

Search

### Account Summary for rh-ipc

**My Services**  

 View, modify, purchase, and delete your services.

[My Zones](#)  
[Add Zone Services](#)  
[My Hosts](#)  
[Add Host Services](#)  
[Account Upgrades](#)  
[MailHop Outbound](#)  
[Network Monitoring](#)  
[SSL Certificates](#)  
[Recursive DNS](#)  
[Support](#)  
[DNS Service Level Agreement](#)  
[Premier Support](#)  
[Contact Support](#)

**Billing**  

 Update your billing information, complete a purchase, and view invoices.

[View Shopping Cart](#)  
[Active Services](#)  
[Order History](#)  
[Billing Profile and Vouchers](#)  
[Renew Services](#)  
[Auto Renew Settings](#)  
[Sync Expirations](#)

**Account Settings**  

 Update your email address, set preferences, and delete your account.

[Change Email Address](#)  
[Change Password](#)  
[Change Username](#)  
[Contact Manager](#)  
[Mailing Lists](#)  
[Move Services](#)  
[Preferences](#)  
[Close Account](#)

6. Fill in a hostname and select a domain you like. You can select Wildcard: Yes, alias “hostname.domain” to same settings, or leave it blank. There are three service types: Host with IP address, WebHop Redirect and Offline Hostname. We recommend you select the first one and the web will detect your IP address automatically. (The IP address is your Ethernet IP address and you can find it at your WAN interface setting in your router/switch.) As it’s successfully created, you will find it at My Hosts.

### Add New Hostname

[↑ Host Services](#)

Note: You currently don't have Account Upgrades in your account. You cannot use some of our Host Service features. Please consider buying Account upgrade that make this form full-functional and will add several other features. [Learn More...](#)

Hostname:  .

Wildcard: ☐ Yes, alias "\*.hostname.domain" to same settings.

Service Type:
 

☒ Host with IP address  
☐ WebHop Redirect  
☐ Offline Hostname

IP Address:

[Use auto detected IP address 116.77.51.57.](#)  
 TTL value is 60 seconds. [Edit TTL.](#)

Mail Routing: ☐ Yes, let me configure Email routing.

## 4.2. Set the ip address of the camera

Set an IP address and port for your camera. The ip address and port should be different when there are multi-cameras over LAN.

Basic Network Settings	
Obtain IP from DHCP Server	<input type="checkbox"/>
IP Addr	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
DNS Server	202.96.128.166
Http Port	82
<input type="button" value="Submit"/> <input type="button" value="Refresh"/>	

[Device Info](#)  
[Alias Settings](#)  
[Date & Time Settings](#)  
[Users Settings](#)  
[Multi-Device Settings](#)  
[Basic Network Settings](#)  
[Wireless Lan Settings](#)  
[ADSL Settings](#)  
[UPnP Settings](#)  
[DDNS Service Settings](#)  
[Mail Service Settings](#)  
[Ftp Service Settings](#)  
[Alarm Service Settings](#)  
[Upgrade Device Firmware](#)  
[Restore Factory Settings](#)  
[Reboot Device](#)  
[Back](#)

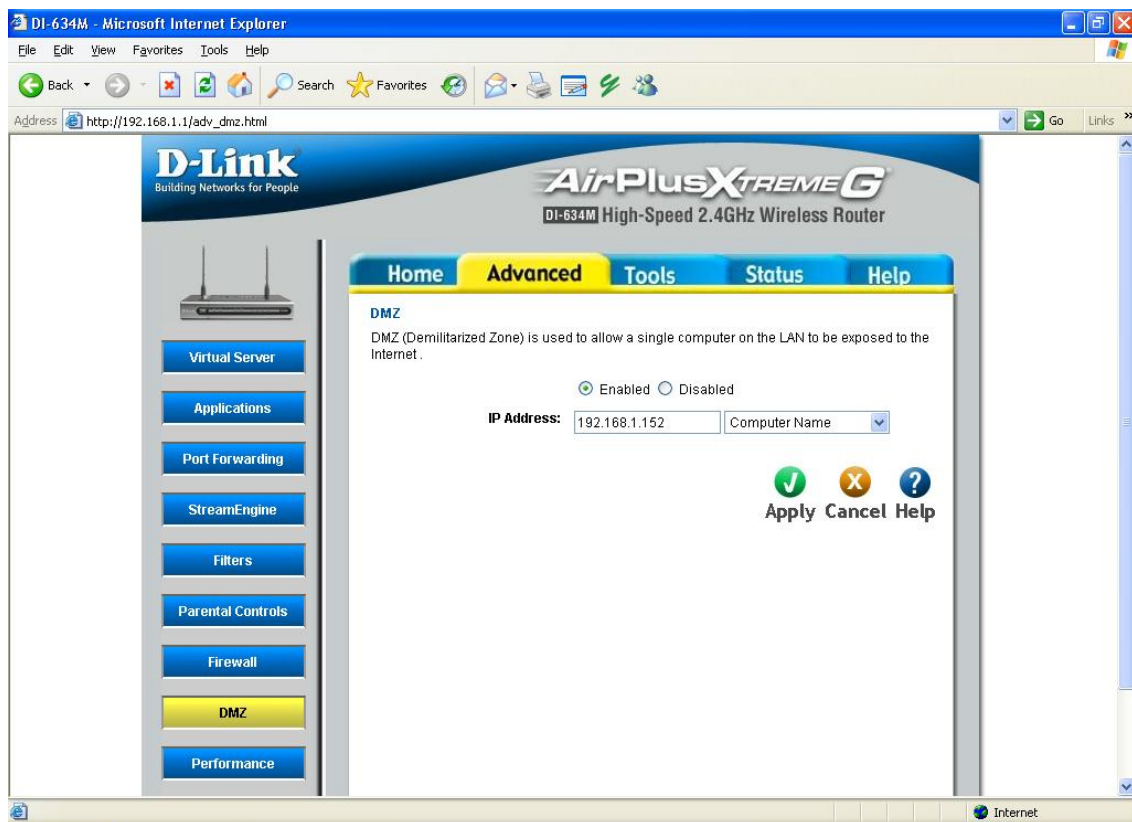
## 4.3. Set the router

Login your router. Take D-Link router for example:

1. Select “virtual server”. Fill in the ip address and port the ip camera you’ve set. The protocol type is TCP (If you’re not sure, pls select both).
2. Select “applications”. Fill in the port of the ip camera.
3. Select “DMZ”. Fill in the ip address of one of the cameras within LAN.

The screenshot shows the D-Link DI-634M router's web interface. The browser window title is "DI-634M - Microsoft Internet Explorer". The address bar shows "http://192.168.1.1/adv\_virtual.html". The router's logo and model "DI-634M High-Speed 2.4GHz Wireless Router" are at the top. The "Advanced" tab is selected in the top navigation bar. On the left, a sidebar contains buttons for "Virtual Server", "Applications", "Port Forwarding", "StreamEngine", "Filters", "Parental Controls", "Firewall", "DMZ", and "Performance". The "Virtual Server" page is displayed, showing a form to configure a virtual server. The form includes fields for "Name" (ipcam), "Private IP" (192.168.1.152), "Protocol Type" (TCP), "Private Port" (80), "Public Port" (80), "Firewall Rule" (Allow All), and "Schedule" (Always). There are "Enabled" and "Disabled" radio buttons, a "Clear" button, and "Apply", "Cancel", and "Help" buttons at the bottom. A "Virtual Servers List" table is at the bottom, with columns for Name, Private IP, Protocol, Firewall, and Schedule.

Virtual Servers List				
Name	Private IP	Protocol	Firewall	Schedule
ipcam	192.168.1.152	TCP	Allow All	Always



#### 4.4. Set the ip camera at DDNS Service Settings

Select the DDNS Service type you've chosen. Fill the relative information and click Submit and



the camera will reboot. When it's successfully set, the camera will indicate DDNS Status as DynDns Succeed.

DDNS Service Settings	
DDNS Service	DynDns.org(dyndns) ▼
DDNS User	rh-ipcam
DDNS Password	••••••••
DDNS Host	rh-ipcam.selfip.com
DDNS Status	DynDns Succeed
Re-Update Ignoring All Errors	<input type="checkbox"/> never do this unless your hostname has been unblocked
<div>Submit Refresh</div>	

Device Info

Alias Settings

Date&Time Settings

Users Settings

Multi-Device Settings

Basic Network Settings

Wireless Lan Settings

ADSL Settings

UPnP Settings

DDNS Service Settings

Mail Service Settings

Ftp Service Settings

Alarm Service Settings

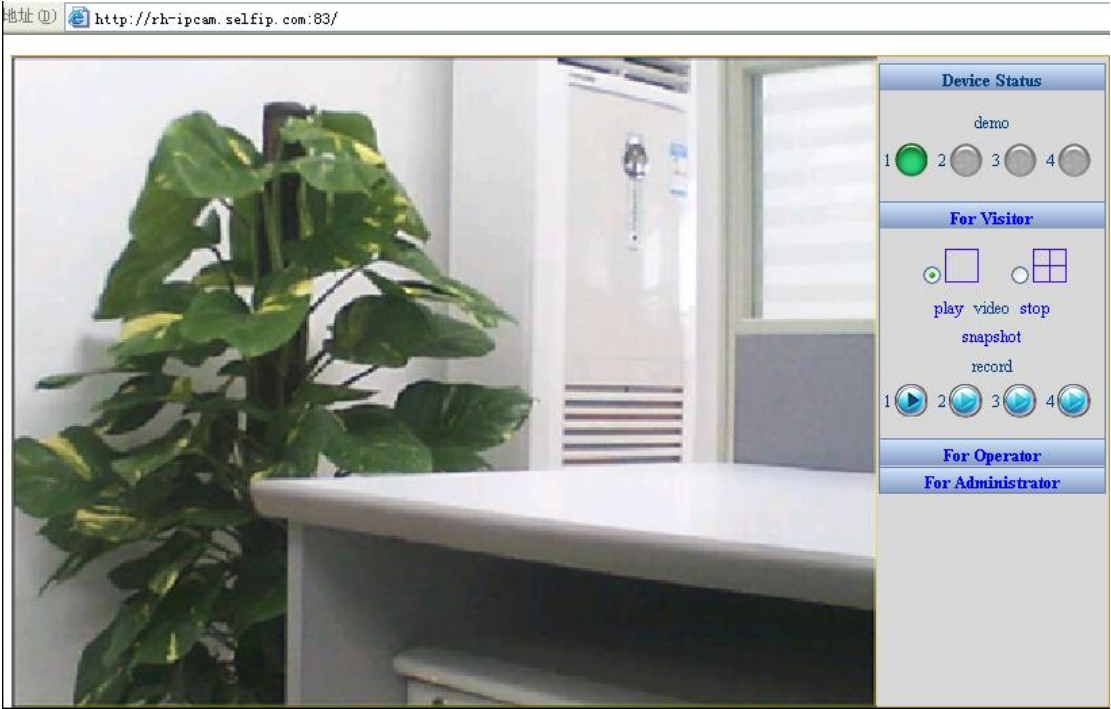
Upgrade Device Firmware

Restore Factory Settings

Reboot Device

Back

If all the steps above are correctly set, you can view the camera on the Internet by inputting the URL, like “http://rh-ipcam.selfip.com” at web browser. (Note: the default port of our camera is 80. you can set it from 80~8080 as you wish. When the port is 80, you can input the domain only. While it is other ports, for instance 82, you need to input “http://rh-ipcam.self.com:82” likewise. And now you can enjoy monitoring over the Internet.





## 5 Specifications

### 5.1 Features:

1. day/night vision mode;
2. pan/tilt control;
3. two-way audio function;
4. support UPnP and DDNS;
5. Wifi transmission, support both WEP and WPA encryption;
6. support TCP/IP, SMTP, HTTP, FTP, PPPoE and other Internet related protocols;
7. allow remote access via web browser (IE, Firefox) for live image viewing;
8. motion detect alarm and I/O input alarm;
9. alarm notification via email or ftp upload by snapshot;
10. three-level privilege and password protection (visitor, operator and administrator) and up to 8 user accounts settings;
11. support Max. 4 users viewing simultaneously.

### 5.2 Specifications:

Compression Format	M-JPEG Standard
Image Sensor	CMOS, 300K pixels
Lens	3.6mm/F1.6
Pan/Tilt Control	Pan: 270°, Tilt: 120°
Image Resolution	VGA (640x480) / QVGA (320x240)
Network Interface	RJ-45/10-100 Base T; IEEE 802.11 b/g
Network Agreement	TCP/IP, FTP, SMTP, HTTP, UDP, DHCP, NTP, DDNS, UPNP, DNS, PPPOE
Max. Frame Rate	30fps (QVGA) , 15fps (VGA)
Alarm Control	Output: 1 Ch (5VDC, 2A) ; Input: 1 Ch (close trigger)
Motion Detect Alarm	Support
Software Upgrade	User upgrade automatically
Monitor Method	IE, Firefox or specific program
Playback Method	Window media player
Security and Safety	3-level Password protection
Mini. Illumination	0Lux@850nm
Effective IR Range	10pcs Ø5 LED, 5m IR range
Auto White Balance	Support
Work environment	-10~50°C (14°F ~ 122°F), 20% - 80%RH
Power Supply	5VDC, 2A
Power Consumption	≤3W
Dimensions	110(L)x100(W)x108(H)mm
Weight	418g (Net)
	768g (Gross)

## 6 Appendix

### 6.1 Restore Factory Settings

Under some condition, users can restore the default factory settings through web. However, when users cannot operate through web page, they may restore default factory settings as follows:

- Turn off the power supply and click reset and turn on the power. All the parameters will be restored to factory settings when the green LED flashes several seconds later.

### 6.2 Trouble Shooting

1. Cameras cannot be found by searching program

- Check the physical connection is correct or not. If the cameras are connected with PC directly, cross-over cable must be used.

2. Website cannot be opened

- PC and the cameras are at different net segment, or subnet mask, or the IP addresses of the cameras conflict. For IP address of PC, it can't be set as "get IP automatically".

3. Website can be viewed but without images

- Controls are not installed. Check the security level setting is correct or not.

4. Images cannot be viewed from remote.

- Check the local gateway or router settings are correct or not, which include port, IP address mapping.
- Controls are not well installed. Check the security level setting is correct or not.
- The firewall has some restrictions with cameras